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(72) Inventor: **Arai, Yoshihisa,**
Intellectual Property Division
Minato-ku, Tokyo 105-8001 (JP)

(74) Representative: **HOFFMANN - EITLE**
Patent- und Rechtsanwälte
Arabellastrasse 4
81925 München (DE)

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(71) Applicant: **Kabushiki Kaisha Toshiba**
Tokyo (JP)

(54) **Random number's seed generating circuit, driver having the same, and SD memory card system**

(57) A random number's seed is changed without using any nonvolatile memory every time the circuit is activated. An oscillator (14) operates immediately after the power supply is turned on to generate a high-speed clock. A counter (15) operates in accordance with the high-speed clock to change the count value at a high speed. When a sufficient time has elapsed after the power supply is turned, a power-on reset circuit (10) out-

puts a power-on reset signal indicating that the internal power supply is stabilized. The power-on reset signal is sufficiently slower than the high-speed clock. The timing at which the power-on reset signal is input to a latch circuit (16) varies. Hence, the count value (random number's seed) latched by the latch circuit (16) changes every time the power supply is turned on. A random number is generated using the random number's seed.

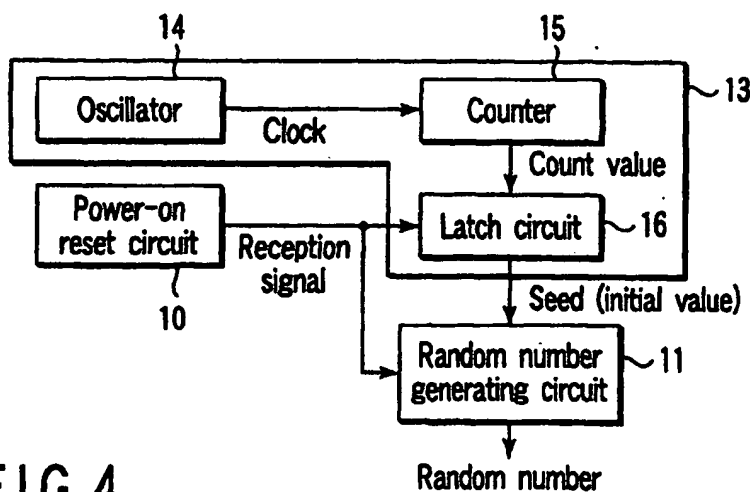


FIG. 4



European Patent
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EUROPEAN SEARCH REPORT

Application Number
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			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			G06F
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 30 November 2004	Examiner Cohen, B
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82